Exploring the Extreme			
2005 Science			
Content Standards			
Alaska Science			
Grades K-12			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	AK	SCI.K-12.A.1	develop an understanding of the processes of science used to investigate problems, design and conduct repeatable scientific investigations, and defend scientific arguments;
Finding the Center of Gravity Using Rulers	AK	SCI.K-12.A.2	develop an understanding that the processes of science require integrity, logical reasoning, skepticism, openness, communication, and peer review; and
Finding the Center of Gravity Using Rulers	AK	SCI.K-12.G.3	develop an understanding that scientific knowledge is ongoing and subject to change as new evidence becomes available through experimental and/or observational confirmation(s); and
Finding the Center of Gravity Using Plumb Lines	AK	SCI.K-12.A.1	develop an understanding of the processes of science used to investigate problems, design and conduct repeatable scientific investigations, and defend scientific arguments;
Finding the Center of Gravity Using Plumb Lines	AK	SCI.K-12.A.2	develop an understanding that the processes of science require integrity, logical reasoning, skepticism, openness, communication, and peer review; and
Finding the Center of Gravity Using Plumb Lines	AK	SCI.K-12.G.3	develop an understanding that scientific knowledge is ongoing and subject to change as new evidence becomes available through experimental and/or observational confirmation(s); and
Changing the Center of Gravity Using Moment Arms	AK	SCI.K-12.A.1	develop an understanding of the processes of science used to investigate problems, design and conduct repeatable scientific investigations, and defend scientific arguments;
Changing the Center of Gravity Using Moment Arms	AK	SCI.K-12.A.2	develop an understanding that the processes of science require integrity, logical reasoning, skepticism, openness, communication, and peer review; and
Changing the Center of Gravity Using Moment Arms	AK	SCI.K-12.G.1	develop an understanding that historical perspectives of scientific explanations demonstrate that scientific knowledge changes over time, building on prior knowledge;

Changing the Center of Gravity Using Moment Arms	AK	SCI.K-12.G.3	develop an understanding that scientific knowledge is ongoing and subject to change as new evidence becomes available through experimental and/or observational confirmation(s); and
Jet Propulsion	AK	SCI.K-12.A.2	develop an understanding that the processes of science require integrity, logical reasoning, skepticism, openness, communication, and peer review; and
Jet Propulsion	AK	SCI.K-12.G.1	develop an understanding that historical perspectives of scientific explanations demonstrate that scientific knowledge changes over time, building on prior knowledge;
Jet Propulsion	AK	SCI.K-12.G.3	develop an understanding that scientific knowledge is ongoing and subject to change as new evidence becomes available through experimental and/or observational confirmation(s); and
Vectoring	AK	SCI.K-12.A.1	develop an understanding of the processes of science used to investigate problems, design and conduct repeatable scientific investigations, and defend scientific arguments;
Vectoring	AK	SCI.K-12.A.2	develop an understanding that the processes of science require integrity, logical reasoning, skepticism, openness, communication, and peer review; and
Vectoring	AK	SCI.K-12.G.1	develop an understanding that historical perspectives of scientific explanations demonstrate that scientific knowledge changes over time, building on prior knowledge;
Vectoring	AK	SCI.K-12.G.3	develop an understanding that scientific knowledge is ongoing and subject to change as new evidence becomes available through experimental and/or observational confirmation(s); and
Center of Gravity, Pitch, Yaw	AK	SCI.K-12.A.1	develop an understanding of the processes of science used to investigate problems, design and conduct repeatable scientific investigations, and defend scientific arguments;
Fuel Efficiency	AK	SCI.K-12.A.1	develop an understanding of the processes of science used to investigate problems, design and conduct repeatable scientific investigations, and defend scientific arguments;

Fuel Efficiency	AK	SCI.K-12.G.1	develop an understanding that historical perspectives of scientific explanations demonstrate that scientific knowledge changes over time, building on prior knowledge;
Fuel Efficiency	AK	SCI.K-12.G.3	develop an understanding that scientific knowledge is ongoing and subject to change as new evidence becomes available through experimental and/or observational confirmation(s); and